Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Original) A universal serial bus (USB) remote host control driver, comprising:

 a connection to a network, said network further connecting to one or more USB device
 adapters, each of said device adapters having a discrete network address;
 a network protocol stack, said protocol stack for encapsulating USB packets in network
 packets and for decapsulating USB packets from network packets; and
 a memory for storing the network address of each of said device adapters and for storing an identification of each USB device connected to each of said device adapters.
- 2. (Original) The USB remote host control driver of claim 1, further comprising: a polling routine, said polling routine contacting each of said device adapters, identifying each of said USB devices, and storing the identifications in said memory.
- 3. (Original) The USB host control driver of claim 1, where the network packets are Ethernet packets.

- 4. (Currently Amended) A <u>universal serial bus (USB) USB</u> device adapter comprising: one or more USB ports;
 - a connection to a network, said network connected to a USB remote host control driver; a network address; and
 - a network protocol stack, said protocol stack for encapsulating USB packets in network packets and for decapsulating USB packets from network packets.
- 5. (Original) The USB host control driver of claim 4, where the network packets are Ethernet packets.
- 6. (Original) An Internet gateway, comprising:
 - a connection to the Internet; and
 - a universal serial bus (USB) remote host control driver, said USB remote host control driver having:
 - (a) a connection to a local network, said local network further connecting to one or more USB device adapters, each of said device adapters having a discrete network address;
 - (b) a local network protocol stack, said protocol stack for encapsulating USB packets in local network packets and for decapsulating USB packets from local network packets;

- (c) a memory for storing the network address of each of said device adapters and for storing an identification of each USB device connected to each of said device adapters; and
- (d) a polling routine, said polling routine contacting each of said device adapters, identifying each of said USB devices, and storing the identifications in said memory.
- 7. (Original) The Internet gateway of claim 6, where the local network is an Ethernet.
- (Original) The Internet gateway of claim 6, further comprising:
 a processor, said processor for receiving unencapsulated USB packets from the protocol stack.
- 9. (Original) The Internet gateway of claim 8, further comprising: a connection to a local video monitor.
- 10. (Original) The Internet gateway of claim 8, further comprising: a connection to a local telephone.

- 11. (Original) The Internet gateway of claim 8, further comprising: a connection to a public television cable.
- 12. (Original) The Internet gateway of claim 8, further comprising: a connection to a public telephone network.
- 13. (Withdrawn) A method for providing a signal from a USB device over a local network to a local processor, the method comprising: generating a USB packet at the USB device; encapsulating the USB packet in one or more network packets; transmitting the network packets over the network; decapsulating the USB packet from the network packets; and providing the USB packet to the processor.
- 14. (Withdrawn) The method of claim 13, wherein the local network is an Ethernet.
- 15. (Withdrawn) The method of claim 13, wherein the USB device is a keyboard.

- 16. (Withdrawn) A method for establishing a connection between a local processor and a USB device over a local network, the method comprising:
 - configuring a USB device adapter candidate list, said list including the network address of at least one USB device adapter;
 - polling an address on the candidate list, said polling including encapsulating a USB packet in one or more network packets;
 - receiving a positive response from a USB device adapter to said polling, said receiving including decapsulating a USB packet from one or more network packets; and adding the address and a USB device adapter identifier to a master list.
- 17. (Withdrawn) The method of claim 16, further comprising:
 - polling a port on a USB adapter device on the master list, said polling including encapsulating a USB packet in one or more network packets;
 - receiving a positive response from a USB device connected to said port, said receiving including decapsulating a USB packet from one or more network packets; and enumerating a USB device in the operating system of the processor.
- 18. (Withdrawn) A method for providing a signal from a USB device to a processor on the Internet, the method comprising:

generating a USB packet at the USB device;
encapsulating the USB packet in one or more local network packets;
transmitting the local network packets over a local network;
decapsulating the USB packet from the local network packets;
encapsulating the USB packet in one or more IP packets;
transmitting the IP packets over the Internet; and
providing the IP packets to the processor.

19. (Withdrawn) An apparatus for providing a signal from a USB device over a local network to a local processor, comprising:

means for generating a USB packet at the USB device;

means for encapsulating the USB packet in one or more network packets;

means for transmitting the network packets over the network;

means for decapsulating the USB packet from the network packets; and

means for providing the USB packet to the processor.

- 20. (Withdrawn) The apparatus of claim 19, wherein the local network is an Ethernet.
- 21. (Withdrawn) The apparatus of claim 19, wherein the USB device is a keyboard.

- 22. (Withdrawn) An apparatus for establishing a connection between a local processor and a USB device over a local network, comprising:
 - means for configuring a USB device adapter candidate list, said list including the network address of at least one USB device adapter;
 - means for polling an address on the candidate list, said means for polling including means for encapsulating a USB packet in one or more network packets;
 - means for receiving a positive response from a USB device adapter to said polling, said

 means for receiving including means for decapsulating a USB packet from one or more

 network packets; and

means for adding the address and a USB device adapter identifier to a master list.

- 23. (Withdrawn) The apparatus of claim 22, further comprising:
 - means for polling a port on a USB adapter device on the master list, said means for polling including means for encapsulating a USB packet in one or more network packets;
 - means for receiving a positive response from a USB device connected to said port, said

 means for receiving including means for decapsulating a USB packet from one or more

 network packets; and

means for enumerating a USB device in the operating system of the processor.

24. (Withdrawn) An apparatus for providing a signal from a USB device to a processor on the Internet, comprising:

means for generating a USB packet at the USB device;
means for encapsulating the USB packet in one or more local network packets;
means for transmitting the local network packets over a local network;
means for decapsulating the USB packet from the local network packets;
means for encapsulating the USB packet in one or more IP packets;
means for transmitting the IP packets over the Internet; and
means for providing the IP packets to the processor.

25. (Withdrawn) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for providing a signal from a USB device over a local network to a local processor, the method comprising: generating a USB packet at the USB device; encapsulating the USB packet in one or more network packets; transmitting the network packets over the network; decapsulating the USB packet from the network packets; and providing the USB packet to the processor.

- 26. (Withdrawn) The device of claim 25, wherein the local network is an Ethernet.
- 27. (Withdrawn) The device of claim 25, wherein the USB device is a keyboard.
- 28. (Withdrawn) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for establishing a connection between a local processor and a USB device over a local network, the method comprising: configuring a USB device adapter candidate list, said list including the network address of at least one USB device adapter;
 - polling an address on the candidate list, said polling including encapsulating a USB packet in one or more network packets;
 - receiving a positive response from a USB device adapter to said polling, said receiving including decapsulating a USB packet from one or more network packets; and adding the address and a USB device adapter identifier to a master list.
- 29. (Withdrawn) The device of claim 28, wherein the method further comprising:

 polling a port on a USB adapter device on the master list, said polling including
 encapsulating a USB packet in one or more network packets;

receiving a positive response from a USB device connected to said port, said receiving including decapsulating a USB packet from one or more network packets; and enumerating a USB device in the operating system of the processor.

- 30. (Withdrawn) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for providing a signal from a USB device to a processor on the Internet, the method comprising: generating a USB packet at the USB device; encapsulating the USB packet in one or more local network packets; transmitting the local network packets over a local network; decapsulating the USB packet from the local network packets; encapsulating the USB packet in one or more IP packets; transmitting the IP packets over the Internet; and providing the IP packets to the processor.
- 31. (New) A serial data bus remote host control driver, comprising:

 a connection to a network, said network further connecting to one or more serial data bus

 device adapters, each of said device adapters having a discrete network address;

- a network protocol stack, said protocol stack for encapsulating serial data bus packets in network packets and for decapsulating serial data bus packets from network packets; and
- a memory for storing the network address of each of said device adapters and for storing an identification of each serial data bus device connected to each of said device adapters.
- 32. (New) The serial data bus remote host control driver of claim 31, further comprising a polling routine, said polling routine contacting each of said device adapters, identifying each of said serial data bus devices, and storing the identifications in said memory.
- 33. (New) The serial data bus host control driver of claim 31, where the network packets are Ethernet packets.
- 34. (Currently Amended) A serial data bus device adapter comprising: one or more serial data bus ports;
 - a connection to a network, said network connected to a serial data bus remote host control driver;

a network address; and

- a network protocol stack, said protocol stack for encapsulating serial data bus packets in network packets and for decapsulating serial data bus packets from network packets.
- 35. (New) The serial data bus host control driver of claim 34, where the network packets are Ethernet packets.
- 36. (New) An Internet gateway, comprising:
 - a connection to the Internet; and
 - a serial data bus remote host control driver, said serial data bus remote host control driver having:
 - (a) a connection to a local network, said local network further connecting to one or more serial data bus device adapters, each of said device adapters having a discrete network address;
 - (b) a local network protocol stack, said protocol stack for encapsulating serial data bus packets in local network packets and for decapsulating serial data bus packets from local network packets;
 - (c) a memory for storing the network address of each of said device adapters and for storing an identification of each serial data bus device connected to each of said device adapters; and

- (d) a polling routine, said polling routine contacting each of said device adapters, identifying each of said serial data bus devices, and storing the identifications in said memory.
- 37. (New) The Internet gateway of claim 36, where the local network is an Ethernet.
- 38. (New) The Internet gateway of claim 36, further comprising a processor, said processor for receiving unencapsulated serial data bus packets from the protocol stack.
- 39. (New) The Internet gateway of claim 38, further comprising a connection to a local video monitor.
- 40. (New) The Internet gateway of claim 38, further comprising a connection to a local telephone.
- 41. (New) The Internet gateway of claim 38, further comprising a connection to a public television cable.

42. (New) The Internet gateway of claim 38, further comprising a connection to a public telephone network.